

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. 98-171

FOR
SAN LUIS & DELTA MENDOTA WATER AUTHORITY
AND
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
GRASSLAND BYPASS CHANNEL PROJECT
FRESNO AND MERCED COUNTIES

Numerous agencies are involved in conducting monitoring and special studies related to the Grassland Bypass Channel Project. The routine monitoring program is described in *Compliance Monitoring Program for Use and Operations of the Grassland Bypass Project*, September 1996, by the U.S. Bureau of Reclamation and others. The Discharger shall be responsible for submitting reports on the monitoring described in this document and any changes thereto approved by the Project Oversight Committee and the Executive Officer. In addition, the following monitoring and reporting shall be conducted:

SAN LUIS DRAIN MONITORING

Samples representative of the discharge shall be collected from the San Luis Drain at the footbridge between Gun Club Road and the terminus (Site B). The time of collection of a grab sample shall be recorded. The following shall constitute the San Luis Drain discharge monitoring program:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Molybdenum	µg/L	grab	Monthly

RECEIVING WATER MONITORING

Receiving water monitoring shall be conducted when there is a discharge from the San Luis Drain. Except for flow, all receiving water samples shall be grab samples. Receiving water samples shall be taken from the following sites:

<u>Site</u>	<u>Description</u>
C	Mud Slough (north) upstream of the San Luis Drain discharge.
D	Mud Slough (north) at the bridge downstream of the San Luis Drain discharge.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Station</u>	<u>Sampling Frequency</u>
Molybdenum	µg/L	grab	C,D	Monthly

In conducting the receiving water sampling, a log shall be kept of the receiving water conditions throughout the reach bounded by Sites C and D. Attention shall be given to the presence or absence of:

- | | |
|---------------------------------|--------------------|
| a. Floating or suspended matter | c. Bottom deposits |
| b. Discoloration | d. Aquatic life |

Notes on receiving water conditions shall be summarized in the monitoring report.

UNUSUAL EVENT MONITORING

During floods or other events that result in the discharge of water at sites other than the terminus of the San Luis Drain, the Discharger shall record the daily average flow of the discharge in cubic feet per second at all discharge sites and collect daily grab samples at these sites for selenium analysis. Daily samples shall also be collected from Salt Slough at Lander Avenue (Site F) and Mud Slough (north) below the San Luis Drain (Site D) during and for three days following these events. These samples shall be analyzed for selenium.

REPORTING

In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly the compliance with waste discharge requirements.

Reports on the monthly monitoring shall be submitted to the Regional Board no later than 45 days following the end of the month. The results of Unusual Event Monitoring shall be submitted to the Regional Board no later than 45 days following the end of the month.

The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Board.

The Discharger shall submit a water year annual report to the Board by **31 December** of each year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous water year (October 1 through 30 September).

The Discharger shall implement the above monitoring program on the date of this Order.

Ordered by:


GARY M. CARLTON, Executive Officer

24 July 1998

(Date)

AMENDED 7.24.98

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**Waste Discharge Requirements Order No. 98-171
Grassland Bypass Channel Project**

ATTACHMENT 1

**PROJECT DRAINAGE AREAS OUTSIDE
OF THE DISTRICTS
LISTED IN THE FINDINGS**

In addition to the six districts listed in the findings, the project serves the following areas:

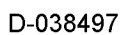
Area 1. All of those portions of Sections 26, 27, 34, 35 and 36 in T. 11 S., R. 11 E., M.D.B. & M., Sections 31, 32, 33 and 34 in T. 11 S., R. 12 E., M.D.B. & M., Section 1 in T. 12 S., R. 11 E., M.D.B. & M., and Sections 2, 3, 4, 5, 6, 9, 10, 11 and 12 in T. 12 S., R. 12 E., M.D.B. & M., bounded on the north by the south right-of-way line of the Central California Irrigation District Main Canal, bounded on the east by the boundary of the Central California Irrigation District, bounded on the south by the north right-of-way line of the Central California Irrigation District Outside Canal, and bounded on the west by the Central California District Camp 13 Bypass Canal.

Area 2. All of those portions of Section 13, T. 12 S., R. 12 E., M.D.B. & M., and Sections 7, 17, 18, and 19, T. 12 S., R. 13 E., M.D.B. & M., bounded partially on the north and west by the Panoche Drainage District, bounded partially on the west, south and east by the Firebaugh Canal Water District and the Widren Water District, and bounded partially on the north by the southerly right-of-way line of the Central California Irrigation District Outside Canal.

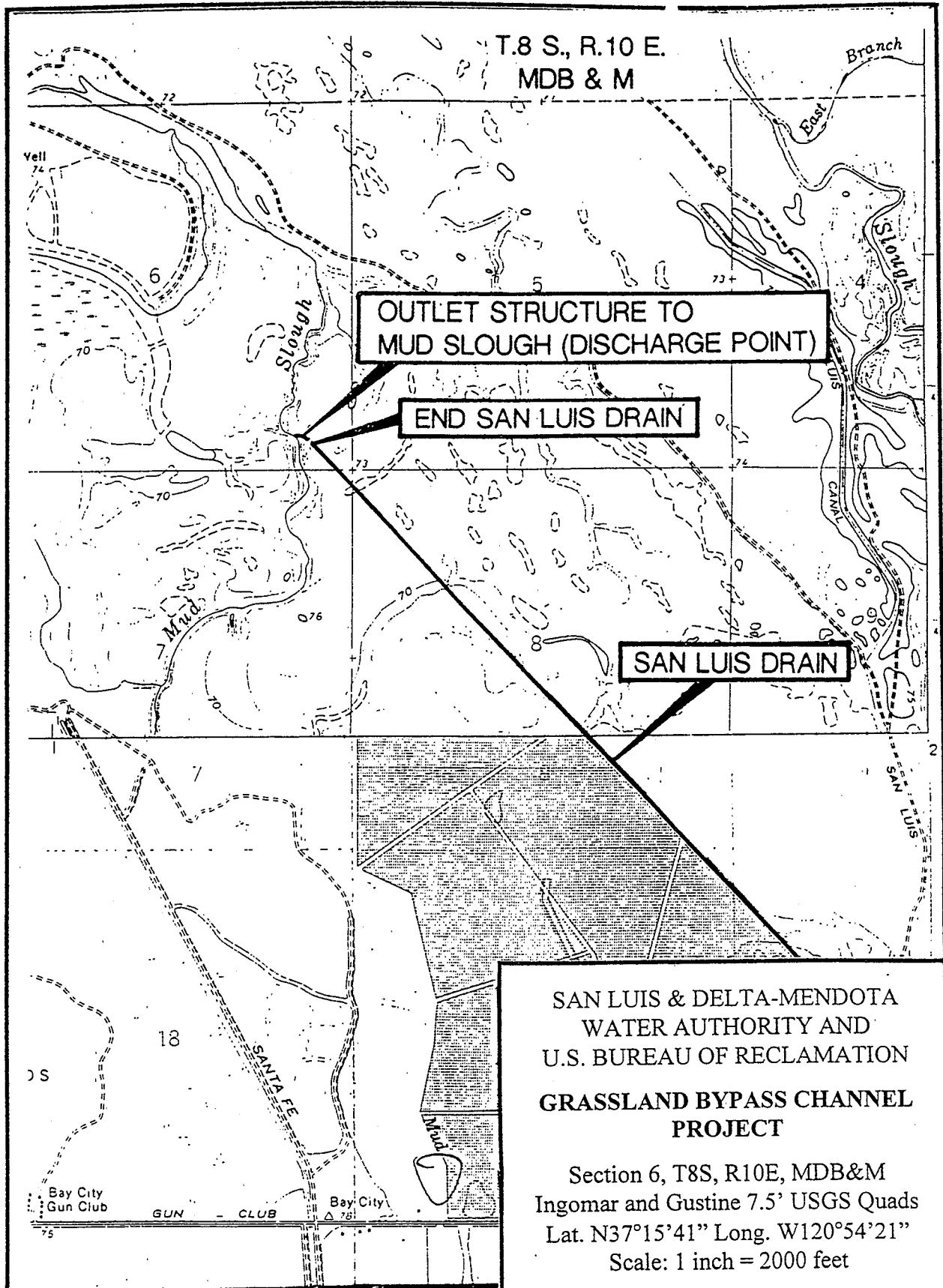
Area 3. All of those portions of Sections 1 and 12, T. 12 S., R. 12 E., M.D.B. & M., Sections 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17 and 24, T. 12 S., R. 13 E., M.D.B. & M. and Sections 19, 29, 30, 32 and 33, T. 12 S., R. 14 E., M.D.B. & M. being lands within the Central California Irrigation District, bounded on the north and east by the south right-of-way line of the Central California Irrigation District Main Canal, bounded on the south and west by the north right-of-way line of the Central California Irrigation District Outside Canal, bounded on the west by the boundary line of the Central California Irrigation District and bounded on the east by the Southern Pacific Railroad right-of-way line.

The Use Agreement between the Bureau and the Authority also indicates that the Project service area includes "Lands adjacent to right-of-ways that may be acquired in the future necessary for drainage facilities to serve the Drainage Area."

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ATTACHMENT 3



**Waste Discharge Requirements Order No. 98-171
Grassland Bypass Channel Project**

ATTACHMENT 4

SHORT AND LONG-TERM DRAINAGE MANAGEMENT PLANS

The Discharger shall prepare Short and Long-Term Drainage Management Plans. The short-term plan shall address activities to be undertaken through September 30, 2001 to comply with this Order. The long-term plan shall address activities related to management of subsurface drainage from the Project service area from 1 October 2001 to the time the discharges are in compliance with the Basin Plan.

The Board or the Executive Officer may modify the required contents of and due dates for these plans. Approved plans shall remain in use until the augmented or updated plans are approved by the Board or the Executive Officer.

Short-Term Drainage Management Plan (STDMP)

The Discharger submitted a STDMP with the Report of Waste Discharge. This report was prepared as required by the selenium control program and primarily addresses activities related to this constituent.

No later than 1 January 1999, the Discharger shall revise the STDMP to address boron, molybdenum and salt discharges. The revised plan shall:

1. Discuss the projected impacts of the management plan on the discharges of boron, molybdenum and salt from the Project (through September 2001).
2. Evaluate potential control and treatment methods and identify any additional technically and economically feasible control measures that could be implemented before October 2001 to reduce the discharge of boron, molybdenum or salt. For each control measure so identified, provide a time schedule for implementation.

Long-Term Drainage Management Plan (LTDMP)

A LTDMP for the selenium control program shall be submitted no later than 1 September 1998. This plan shall contain the following information:

1. The specific control or treatment methods that will be implemented to comply with the water quality control program for subsurface drainage discharges from the Grassland Watershed as contained in the Board's Basin Plan. The LTDMP shall present the on-farm and district level activities the Discharger will implement to achieve water quality objectives, incorporating, as appropriate, the recommendations of the San Joaquin Valley Drainage Program. Provide a time schedule for implementation.

2. To indicate the relative importance of the various control or treatment measures, describe and list them in the order of significance with respect to the extent to which each is expected to reduce selenium discharges.
3. Identify critical milestones the control program must address. These would include, but are not limited to: the end of the Grassland Bypass Channel Project, the deadlines in the Basin Plan compliance timetable, and the prohibition of discharge of subsurface drainage to Mud Slough.
4. For each milestone, identify the goal of the Grassland Area Farmers and the critical steps that must be taken to continue operations in compliance with the Basin Plan and other limitations. For each critical step, indicate the proposed start and completion dates.
5. Address the long term approach for dealing with storm waters from outside the Project service area. What efforts will be made to reduce the threat of flooding, monitor the impacts on the project, or minimize the "uncontrollable" aspects of these events.
6. In the event the program to gradually reduce selenium discharges is not on schedule to meet water quality objectives as specified in the Basin Plan, identify what options are available to achieve immediate, major reductions in discharges as may be required during dry years after performance goals and water quality objectives are in effect.

No later than 1 July 1999, the Discharger shall revise the LTDMP to specify control or treatment measures to reduce boron, molybdenum and salt discharge. The revised LTDMP shall:

1. Discuss the projected impacts of the management plan on the discharges of boron, molybdenum and salt.
2. Identify any additional technically and economically feasible control measures that could be implemented to reduce the discharge of boron, molybdenum or salt. For each control measure so identified, provide a time schedule for implementation.
3. Provide information on the costs of the control or treatment measures evaluated for use in the control program.

Updates

Both the STDMP and LTDMP shall be updated annually and submitted to the Board for review and approval no later than 1 January of each year, with the first annual update to be submitted no later than 1 January 2000.

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